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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER AC	TION	See Form PCT/IPEA/416		
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/US04/23127 19 July 2004 (19.07.200		4)	23 July 2003 (23.07.2003)		
International Patent Classification (IPC)	or national classification an	ıd IPC			
IPC: C12P 19/02 (2007.01) USPC: 435/105					
Applicant					
NOVOZYMES NORTH AMERICA, IN	C.				
Examining Authority unde	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.				
2. This REPORT consists of	<u>; </u>				
3. This report is also accompa	\				
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
that goes bey	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indicate	ions relating to the follo	wing items:			
Box No. I Ba	sis of the report				
Box No. II Pri	ority				
Box No. III No	n-establishment of opini olicability	ion with regard to nove	elty, inventive step and industrial		
	ck of unity of invention				
Box No. V Re	asoned statement under	Article 35(2) with	regard to novelty, inventive step or supporting such statement		
	rtain documents cited	and explanations	supporting such statement		
Box No. VII Cer	tain defects in the intern	national application			
Box No. VIII Ce	tain observations on the	international applicati	ion		
Date of submission of the demand		Date of completion o	of this report		
05 May 2005 (05.05.2005)		11 December 2006 (11.	12 2006)		
Name and mailing address of the IPEA/ U	S	Authorized officer			
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		/	Janece Ford		
P.O. Box 1450		Tiffany M. Gough	Janue Ford		
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201		Telephone No. 571-27	2-1600		
orm PCT/IPEA/409 (cover sheet)(April 20	05)		./		

International application No.	
T CTT 7 CO 4 In a 4 a a	

	INTE	RNATIONAL PRELIMINARY REPORT ON PATENTABILITY	PCT/US04/23127			
В	x No	. I Basis of the report				
1.		regard to the language, this report is based on: the international application in the language in which it was filed.				
	<u> </u>					
	a translation of the international application into, which is the language of a translation furnished for the purposes of:					
		international search (under Rules 12.3 and 23.1(b))				
publication of the international application (under Rule 12.4(a))						
		international preliminary examination (under Rules 55.2(a) a	nd/or 55.3(a))			
2.	to the	regard to the elements of the international application, this report is based a receiving Office in response to an invitation under Article 14 are referred axed to this report):	on (replacement sheets which have been furnished d to in this report as "originally filed" and are not			
		the international application as originally filed/furnished				
	\boxtimes	the description:				
		pages 1-14 as originally filed/furnished pages* NONE received by this Authority on				
		pages* NONE received by this Authority on				
	\boxtimes	the claims: pages 15-17 as originally filed/furnished				
		pages* NONE as amended (together with any statement)				
		pages* NONE received by this Authority on pages* NONE received by this Authority on				
		the drawings:				
		pages NONE as originally filed/furnished				
		pages* NONE received by this Authority on pages* NONE received by this Authority on				
	П	a sequence listing and/or any related table(s) - see Supplemental Bo				
			or solution between Blothing.			
3.	Ш	The amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, Nos	•			
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):				
4.		This report has been established as if (some of) the amendments annexed to since they have been considered to go beyond the disclosure as filed, as inc	o this report and listed below had not been made, dicated in the Supplemental Box (Rule 70.2(c)).			

any table(s) related to the sequence listing (specify):

* If item 4 applies, some or all of those sheets may be marked "superseded."
Form PCT/PEA/409 (Box No. I) (April 2005)

the description, pages____

the drawings, sheets/figs ___

the sequence listing (specify):

the claims, Nos._

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/US04/23127

Box No. III Non-establishment of opinion with regard to novelty, inventive step and indust	rial applicability
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be industrially applicable have not been examined in respect of:	e non obvious), or to be
the entire international application	
claims Nos. <u>4-14</u>	
because:	
the said international application, or the said claim Nos relate to the following sub not require an international preliminary examination (specify):	ject matter which does
the description, claims or drawings (indicate particular elements below) or said claims No that no meaningful opinion could be formed (specify):	
Claims 4-14 are dependent claims and are not drafted in accordance with the second and third sentences of PC	T Rule 6.4(a).
the claims, or said claims Nos are so inadequately supported by the description opinion could be formed (specify):	n that no meaningful
no international search report has been established for said claims Nos.	
a meaningful opinion could not be formed without the sequence listing; the applicant prescribed time limit:	t did not, within the
furnish a sequence listing on paper complying with the standard provided for Administrative Instructions, and such listing was not available to the Intern Examining Authority in a form and manner acceptable to it.	in Annex C of the national Preliminary
furnish a sequence listing in electronic form complying with the standard provided for Administrative Instructions, and such listing was not available to the International Examining Authority in a form and manner acceptable to it.	for in Annex C of the national Preliminary
pay the required late furnishing fee for the furnishing of a sequence listing in respunder Rules 13ter.1(a) or (b) and 13ter.2.	onse to an invitation
a meaningful opinion could not be formed without the tables related to the sequence listin not, within the prescribed time limit, furnish such tables in electronic form complying requirements provided for in Annex C-bis of the Administrative Instructions, and su available to the International Preliminary Examining Authority in a form and manner acceptable.	g with the technical
the tables related to the nucleotide and/or amino acid sequence listing, if in electronic comply with the technical requirements provided for in Annex C-bis of the Administrative	c form only, do not
See Supplemental Box for further details	

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/23127

Box No. V	Reasoned statement under Article 3: applicability; citations and explanati	5(2) with regard to novelty, inventive step or industrial ions supporting such statement		
1. Statement				
No	ovelty (N)	Claims <u>1-3, 15-20</u>	YES	
		Claims NONE	_NO	
Inv	ventive Step (IS)	Claims <u>1-3, 15-20</u>	_YES	
		Claims NONE	_NO	
Inc	dustrial Applicability (IA)	Claims 1-3, 15-20	YES	
		Claims NONE	_ NO	
2. Citations and Explanations (Rule 70.7) Claims 1-3 and 15-20 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a process of saccharification by treating with glucoamylase at a pH from 5.5-6.2 and at temperatures of 50-80°C.				
Claims 1-3 and claimed can be	15-20 meet the criteria set out in PCT Artic made or used in industry.	le 33(4), and thus have industrial applicability because the subject ma	atter	

Form PCT/IPEA/409 (Box No. V) (April 2005)